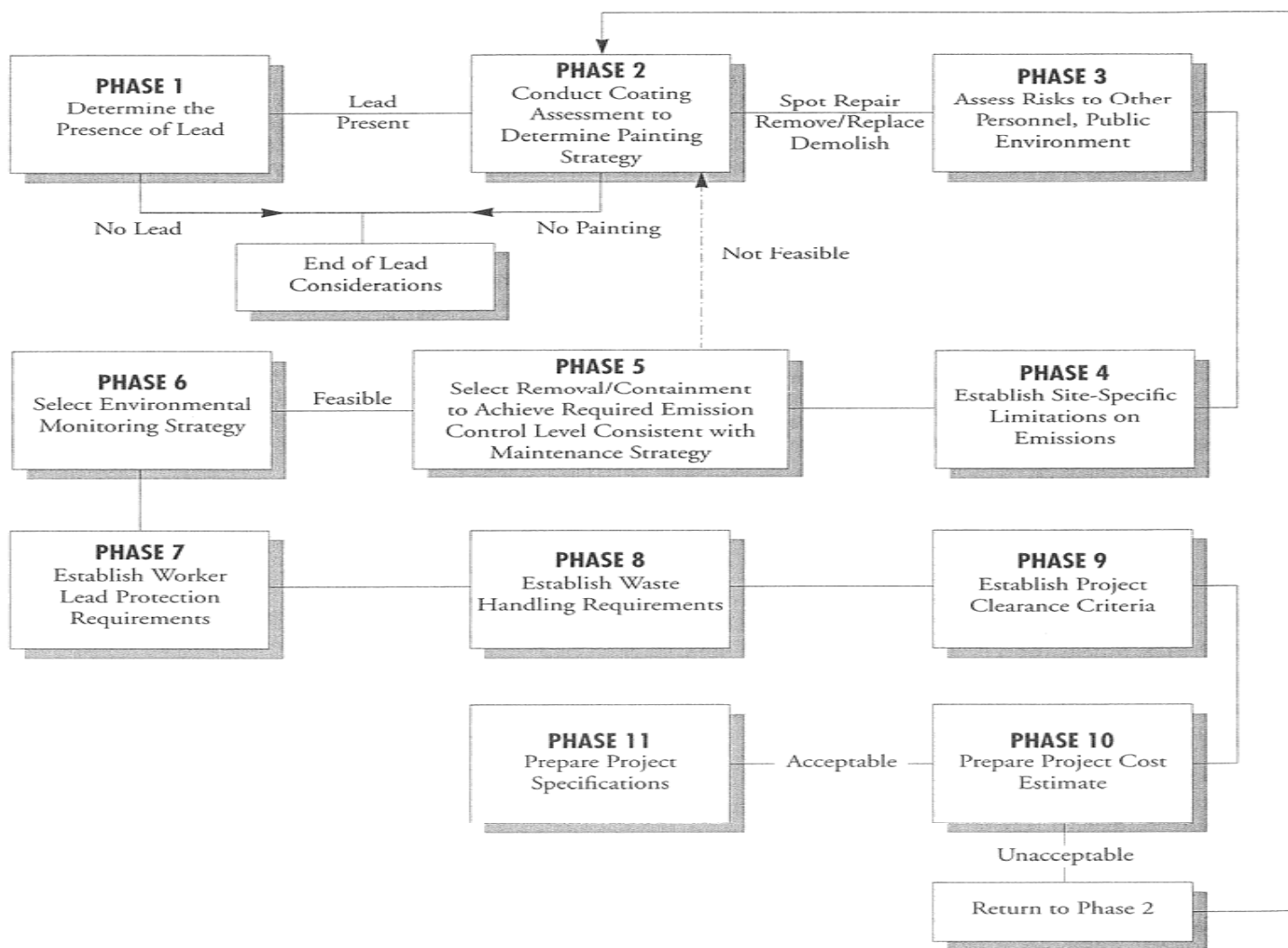


Guidelines On Lead (and other
toxic metals)
Paint Management - Companion
Document to *Project Design*

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KTA-Tator, Inc.
August 28, 2006

DECISION PATH FOR PROJECT DESIGN—INDUSTRIAL LEAD PAINT MANAGEMENT



Update – 5 key trends

- Definition of Hazardous Paint
- Coating Condition Assessments
- Recommendations/Specifications
- Worker/Public Health Protection
- Waste Management

1. Definition of Hazardous Paint

- Sampling strategy
- Not just lead
- Toxic metals in abrasive

Determining the Presence of Lead

- Jobsite records.
- Chemical spot tests.
- Sampling for laboratory analysis.



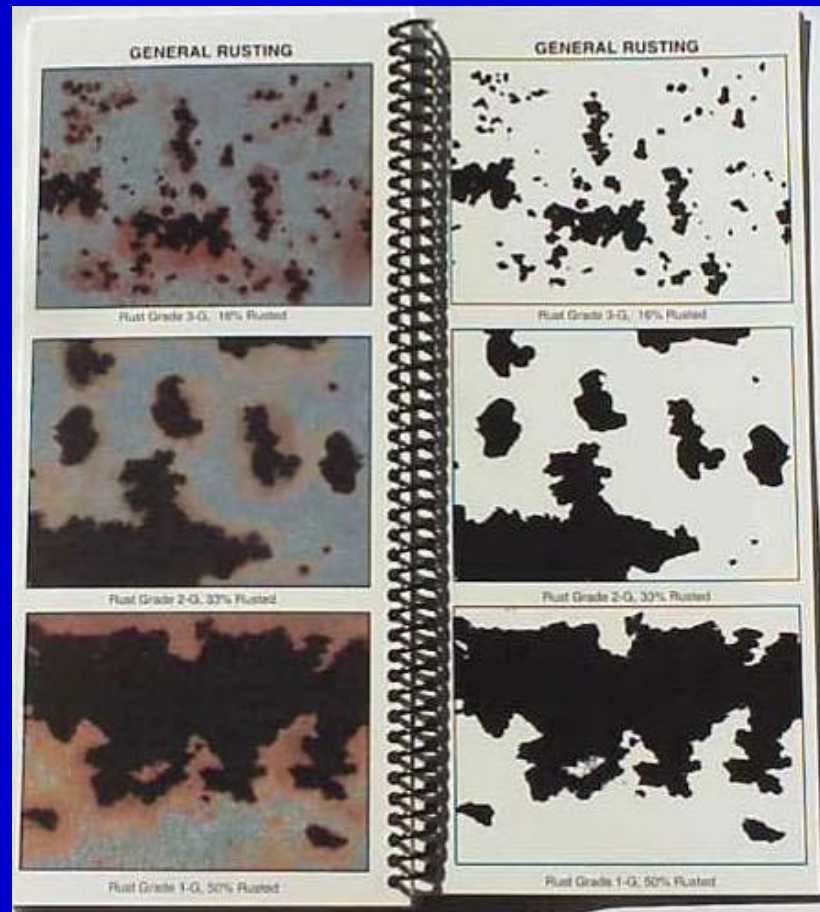
Field Sampling



2. Coating Condition Assessments

- Longer term focus
- Computerized data management

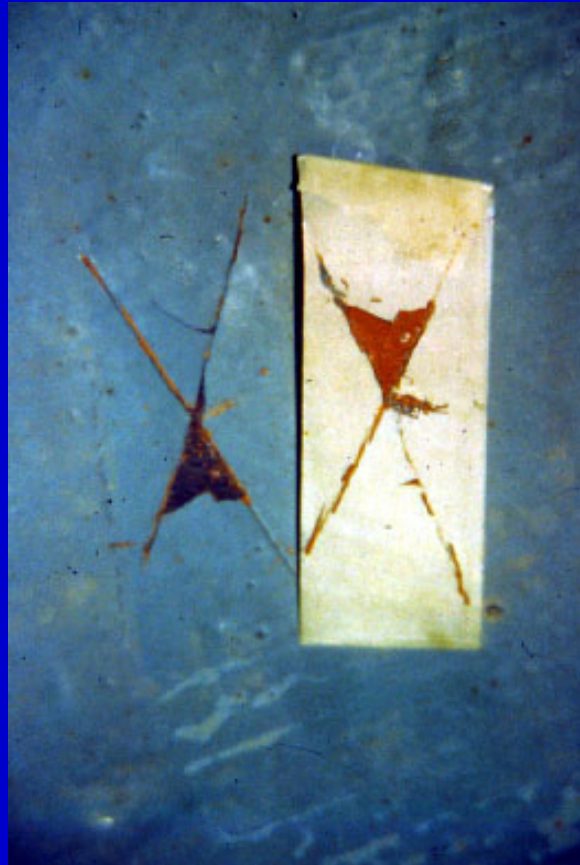
SSPC-VIS 2, Standard Method of Evaluating Degree of Rusting on Painted Steel Surfaces



Dry Film Thickness



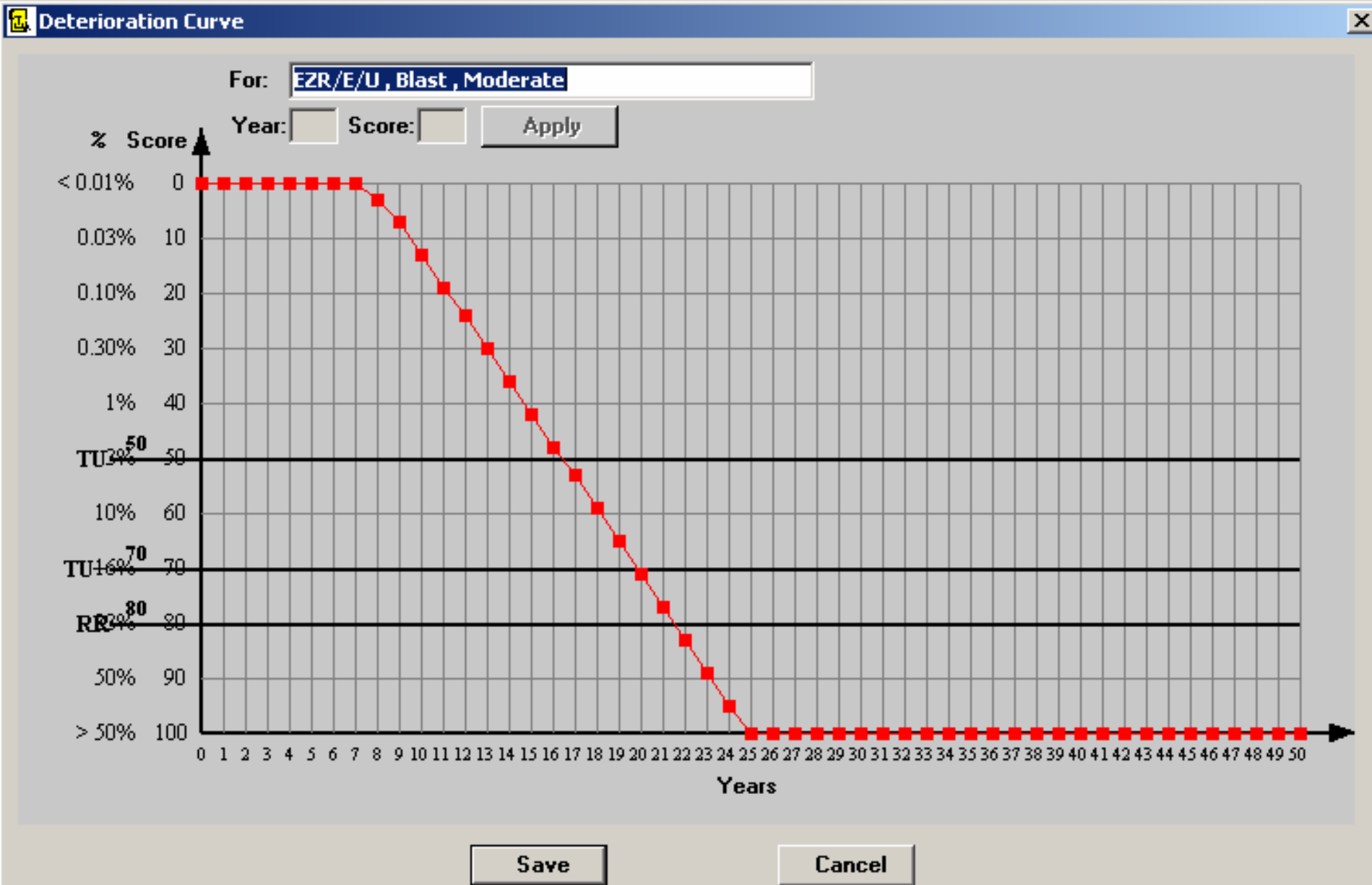
Coating Adhesion – ASTM D3359, Measuring Adhesion by Tape Test



Maintenance Strategy

Coating Deterioration	Dry Film Thickness	Adhesion		
		$\geq 2A$ or 2B	1A or 1B	0A or 0B
<1%	Any	No painting reqd	No painting reqd	No painting reqd
1 to 3%	Any	Spot touch up	Spot touch up	Spot touch up
>3 to 10%	<20 mils	Overcoat	Overcoat	Remove/replace
	20 to 30 mils	Overcoat	Remove/replace	Remove/replace
	>30 mils	Overcoat	Remove/replace	Remove/replace
>10 to 20%	<20 mils	Overcoat	Remove/replace	Remove/replace
	20 to 30 mils	Overcoat	Remove/replace	Remove/replace
	>30 mils	Overcoat	Remove/replace	Remove/replace
>20%	Any	Remove/replace	Remove/replace	Remove/replace

Sample Coating Deterioration Curves



3a. Recommendations

- New SSPC standards
- Types of coatings vs. service environment
- VOC compliance

3b. Specifications

- Performance vs. Prescriptive
- Incorporation of Health and Safety Requirements – AIHA Guideline 4
- Contractor certification

4a. Worker Protection

- Use of quantitative fit tests with half-mask APR – results in lower Blood Lead Levels
- Increased use of wet methods of surface preparation

Respiratory Fit Equipment



4b. Public Health Protection

- Update on SSPC Guide 6
- New SSPC TU 7 – Conducting Ambient Air, Soil and Water Sampling (TSP only)

Hi-Vols



5 Waste Management

- Demolition debris
- Architectural debris
- Change in waste manifests
- Increased use of additives (e.g., Blastox)



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